

the switches to route the current from the capacitors to the batteries. Logic tables can, for example, direct the components of the system, route current, control the elements of the system, or any combination thereof. When the battery voltage is greater than or equal to the set reference voltage, the batteries **206**, **213** can be fully charged. When the battery voltage is less than or equal to the set reference voltage, the batteries **206**, **213** can have a low charge.

[0068] FIG. **6a** illustrates that when the first battery **206** charge is full, the first switch **S1** can be turned off. When the second battery **213** charge is low, the second switch **S2** can be turned on. Turning the first switch **S1** off can turn off the charging of the first battery charge block **222**. Turning the second switch **S2** on can turn on the charging of the second battery charge block **223**.

[0069] FIG. **6b** illustrates that the first battery **206** can send a voltage to the first voltage detector **207**. When the first voltage detector **207** detects a voltage above the set reference voltage, then the first output switch can be turned off. When the first output switch is turned off, the fourth relay element **209** can be disabled (e.g., triggered) from charging the first battery **206**. The fourth relay element **209** can disable the fifth relay element **210**. The fifth relay element **210** can disable the first relay element **204**. The first relay element **204** can disable the second relay element **205**. While the second relay element **205** is disabled, the super capacitor charging circuit **202** can send current to the first current balance control relay **208**. The current balance control relay **208** can send the current to the eleventh relay element **211**. The eleventh relay element **211** can send current to power the device **200**. Disable can mean to stop current flow.

[0070] FIG. **6c** illustrates that the second battery **213** can send a voltage to the second voltage detector **216**. When the second voltage detector **216** detects a voltage less than the set reference voltage, then the tenth relay element **214** can be enabled. When the tenth relay element **214** is enabled, the tenth relay element **214** can enable the ninth relay element **215**. The ninth relay element **215** can enable the sixth relay element **218** to charge the second battery **213**. The sixth relay element **218** can send current to the seventh relay element **217**. The seventh relay element **217** can send current to the second battery **213**. Enable can mean to allow current flow.

[0071] FIG. **7a** illustrates that when the second battery **213** charge is full, the second switch **S2** can be turned off. When the first battery **206** charge is low, the first switch **S1** can be turned on. Turning the first switch **S1** on can turn on the charging of the first battery charge block **222**. Turning the second switch **S2** off can turn off the charging of the second battery charge block **223**.

[0072] FIG. **7b** illustrates that the first battery **206** can send a voltage to the first voltage detector **207**. When the first voltage detector **207** detects a voltage less than the set reference voltage, then the fourth relay element **209** can be enabled. When the fourth relay element **209** is enabled, the fourth relay element **209** can enable the fifth relay element **210**. The fifth relay element **210** can enable the first relay element **204** to charge the first battery **206**. The first relay element **204** can send current to the second relay element **205**. The second relay element **205** can send current to the first battery **206**.

[0073] FIG. **7c** illustrates that the second battery **213** can send a voltage to the second voltage detector **216**. When the

second voltage detector **216** detects a voltage above the set reference voltage, then the second output switch can be turned off. When the second output switch is turned off, the tenth relay element **214** can be disabled from charging the second battery **213**. The tenth relay element **214** can disable the sixth relay element **218**. The sixth relay element **218** can disable the seventh relay element **217**. The seventh relay element **217** can disable the twelfth relay element **212**. The twelfth relay element **212** can disable current from passing to the second battery **213**. The eleventh relay element **211** can send current from the second battery **213** to power the device **200**.

[0074] FIG. **8a** illustrates that when the first battery **206** charge is low, the first switch **S1** can be turned on. When the second battery **213** charge is low, the second switch **S2** can be turned on. Turning the first switch **S1** on can turn on the charging of the first battery charge block **222**. Turning the second switch **S2** on can turn on the charging of the second battery charge block **223**.

[0075] FIG. **8b** illustrates that the first battery **206** can send a voltage to the first voltage detector **207**. When the first voltage detector **207** detects a voltage less than the set reference voltage, then the fourth relay element **209** can be enabled. When the fourth relay element **209** is enabled, the fourth relay element **209** can enable the fifth relay element **210**. The fifth relay element **210** can enable the first relay element **204** to charge the first battery **206**. The first relay element **204** can send current to the second relay element **205**. The second relay element **205** can send current to the first battery **206**.

[0076] The second battery **213** can send a voltage to the second voltage detector **216**. When the second voltage detector **216** detects a voltage less than the set reference voltage, then the tenth relay element **214** can be enabled. When the tenth relay element **214** is enabled, the tenth relay element **214** can enable the ninth relay element **215**. The ninth relay element **215** can enable the sixth relay element **218** to charge the second battery **213**. The sixth relay element **218** can send current to the seventh relay element **217**. The seventh relay element **217** can send current to the second battery **213**.

[0077] The first battery **206** and the second battery **213** can charge at the same time. The first battery **206** and the second battery **213** can charge at a different time.

[0078] FIG. **9a** illustrates that when the first battery **206** charge is full, the first switch **S1** can be turned off. When the second battery **213** charge is full, the second switch **S2** can be turned off. Turning the first switch **S1** off can turn off the charging of the first battery charge block **222**. Turning the second switch **S2** off can turn off the charging of the second battery charge block **223**.

[0079] FIG. **9b** illustrates that the first battery **206** can send a voltage to the first voltage detector **207**. When the first voltage detector **207** detects a voltage above the set reference voltage, then the output switch can be turned off. When the output switch is turned off, the fourth relay element **209** can be disabled from charging the first battery **206**. The fourth relay element **209** can disable the fifth relay element **210**. The fifth relay element **210** can disable the first relay element **204**. The first relay element **204** can disable the second relay element **205**. While the second relay element **205** is disabled, the super capacitor charging circuit **202** can send current to the first current balance control relay **208**. The current balance control relay **208** can send the current